66356 SOV/81-59-19-67722

The Spectral Analysis of Titanium, Molybdenum and Their Alloys for Nitrogen, Hydrogen and Oxygen

of N determination at the excitation of the spectrum by a low-voltage pulse discharge from a capacitance of 4,000 μ farad has been shown. The determination of 0.1 - 150 in Ti is carried out also in a pulse discharge but at a capacitance of 400 μ farad without introduction of inductance; the discharge vessel is filled up with helium to a pressure of 500 mm Hg. The distance between the sample and the carbon rod of 6 mm in diameter sharpened to a truncated cone is 1 mm; the slit width of the spectrograph is 0.02 mm. The lines 0 4705.32 and 0 7771.9 A are compared with the background of the spectrum. For photographing one spectrum 80 pulses are necessary. It has been shown that the intensity of the 0 lines depends in different ways on the energy of the discharge for different metals, e.g. for Ti the optimum intensity is reached at 400 pc farad, for molybdenum at 4,500 \mu farad. Concentrations of 0.005 - 0.15% H in Ti are found at the excitation of spectra by a single low-voltage pulse discharge at a capacitance of 2,000 μ farad, a tension of 270 v and a self-induction of 10 μ henry between the sample cathode and the Cu-electrode of 3 - 5 mm in diameter sharpened to a point; the discharge takes place in the interelectrode gap of 0.3 mm in the air medium. The spectra are photographed on an ISP-51 spectrograph with a UF-85 camera

Card 2/3

THE TELEVISION NORTHERN PROPERTY OF THE PROPER

SVENTITSKIY, N.S.; SUKHENKO, K.A.; FAL'KOVA, O.B.; GALOHOV, P.P.;
TAGANOV, K.I.; ALPATOV, M.S.

Spectrum analysis of titanium, molybdenum, and their alloys for nitrogen, hydrogen, and oxygen. Fiz.sbor. no.4:225-231 58. (MIRA 12:5)

l. Vsesovusnyy ordena Lenina nauchno-issledovatel skiy institut aviatsionnykh materialov.

(Gases in metals) (Spectrum analysis)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

AUTHORS:

Sukhenko, K.A., Moiseyeva, K.A., Tishin, I.G.,

32-24-6-17/44

THE STATE OF THE PROPERTY OF T

Metelina, L.D.

TITLE:

The Analysis of Some Elements in Alloys With the Aid of the Photoelectric Stylometer (Analiz nekotorykh elementov v splavakh

pri pomoshchi fotoelektricheskogo stilometra)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 6, pp 711-712 (USSR)

ABSTRACT:

The determination of elements which had hitherto been insufficient when carried out by the photographical methods of spectral analysis, were carried out as e.g., the analysis of aluminum in nickel—and magnesium alloys with high Cu-, Zn- and Mg concentrations in aluminum alloys and a high tungsten content in steels. Experimental conditions are described, from which it may be seen that better results were obtained with a phase heating of 90° and a current of amperes. Control of the stability of the position of the diagrams showed that considerable changes take place in spite of the fact that the temperature fluctuations were only slight. Results of considerable accuracy were obtained by means of carbon-, copper-, and nickel electrodes, in which case, however, calibration curves do not coincide. It was found that the quality of the experimental

Card 1/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

The Analysis of Some Elements in Alloys With the Ail of the Photoelectric Stylometer

32-24-6-17/44

preparation and fixing of the sample exercise a considerable influence upon the accuracy of the results of the analysis. Determination of magnesium, zinc and copper in duraluminum B-95 and AMG and the determination of aluminum in a magnesium alloy showed, in addition to the results obtained by the aforementioned analyses, that the stylometer FES -1 can be used for the quantitative determination of elements in steels as well as in aluminum and nickel alloys. The error limits are given. Analysis, if the calibration curve is used, is said to take about 4 minutes. There are 2 figures and 1 table.

1. Alloys--Analysis 2. Spectrum analyzers--Performance

Card 2/2

The Analysis of Light and Refractory Alloys and Steels SOV/.8-23-9-25/57 for Photoelectrical Methods

shows the lines which were measured, as well as the concentration interval of the alloy elements, and the error in determination. Investigations were carried out of aluminum alloys with respect to magnesium, zinc, silicon, and copper, as well as of magnesium alloys to aluminum. The diagrams for the determination of silicon in the alloys A1-9, A1-5 and duralumin are shifted only little. The third part deals with the analysis of steels. These steels were investigated with regard to content of tungsten, chromium, mangagese, and silicon, and table 3 gives the measured lines in A, the width of the gap, the concentration intervals, and the errors in determination. It is found that, in the experiments carried out, no re-sharpening of the samples was necessary after the determination of an element, and that a considerable shortening of the time needed for the analyses was possible. The last part deals with the application of photoelectrical attachments in the spectrograph of the type ISP-22 for the analysis of aluminum- and magnesium alloys. Here, the emission within the range of wavelengths of 2900-2000 A is recorded by means of a Geiger-Mueller courter. An arc generator of the type DG-1, the spark generator of the type

Card 2/3

SOV/48-23-9-29/57

24(7) AUTHORS: Sakhenko, K. A., Grigorova, V. S., Lindstrem, I. S., Syentits.

hay N. S., Galonev, P. P.

TITLE:

The Determination of Oxygen in Technical Titanium by Means of

the Spectral Method

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,

Vol 23, Er 9, pp 1116 - 1118 (USSE)

ABSTRACT:

In the introduction mention is made of the papers published in recent years on the determination of gases in metals in general, and especially on the determination of oxygen in titanium. (Refs 1-7). A pair of lines of oxygen and argon is given, by means of which the concentration of oxygen in titanium was determined within a range of 0.035 - 0.56%. Already in another paper (Ref 7) it was shown that the influence of "third" elements is lacking, and it is possible by this method to determine the oxygen content with an accuracy equaling that of vacuum melts or of bromine reductions. In the case of the experiments carried out here, titanium standards with an oxygen

Card 1/3

content of 0.01 - 2.0% were produced, in which case titaniumsponge was mixed with TiO2 in appropriate ratios. The electrodes

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653810017-9

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The Determination of Cxyyon in Pachnical Titanium by Means of the Spactral Lithua

sov/48-23-9-29/57

periments concerning the influence of annealing upon line intensities showed that the latter are independent of annealing. Experiments concerning the most favorable selection of the light source showed that low-voltage spark discharges are suited best. Figure 3 shows a diagram for the determination of oxygen in technical titanium according to the intensity of an oxygen line. This diagram was obtained by means of a low-voltage spark light source. Further investigations showed the usefulness of the DG-1-type generator for low-voltage spark discharges. There are 3 figures and 7 references, 2 of which are Soviet.

Card 3/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

The Determination of Nitrogen in Steels of Various Compositions

हुम्<mark>दर्भावस्त्रप्रशिक्षां स्वतिकार्यस्य में अस्ति । अस्ति स्वतिकार्यः अस्तिकः । वस्ति । वस्ति । वस्ति । वस्ति</mark>

SOV/48-23-9-32/57

analytical methods. In the discharge chamber helium was used as a neutral medium. The diagram of figure 1 shows the calibration line for nitrogen determination in steel. A low-voltage spark generator and a pulsed-discharge generator were used as light sources. The scheme of a combined generator is shown by figure 3. In this circuit miniature electrolytic condensers and paper condensers are used, and semiconductors serve as rectifiers. In the spectral analysis of nitrogen in steels the influence of "third" elements was found. All experiments carried out on samples with about 1% Al yielded too high values. An increase in chromium with a simultaneous decrease in nickel causes a steeper slope of the calibration curve. There are 2 figures and 4 tables.

Card 2/2

The Setting of Standards for Various Alloys and the SOV/48-23-9-43/57 Investigation of the Influence of "Third" Elements Therein

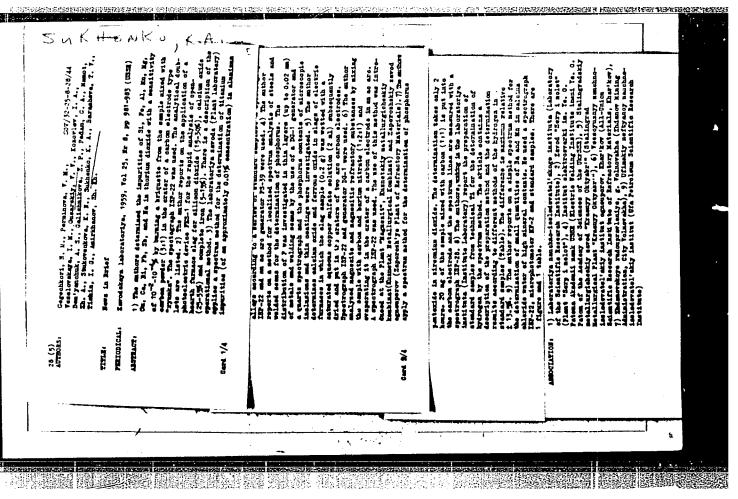
bration curves for the determination of boron and lead in various Ni-alleys. Experiments were then carried out by varying the amperage, the shape of the electrodes, and the like, in order to prevent the influence exercised by "third" elements, but these experiments were not successful. Finally, the possibility is pointed out of reducing the influence of "third" elements by a suitable selection of the light source. K. A. Moiseyeva took part in the investigation of titanium alloys. There are 1 figure, 1 table and 2 Soviet references.

Card 2/2

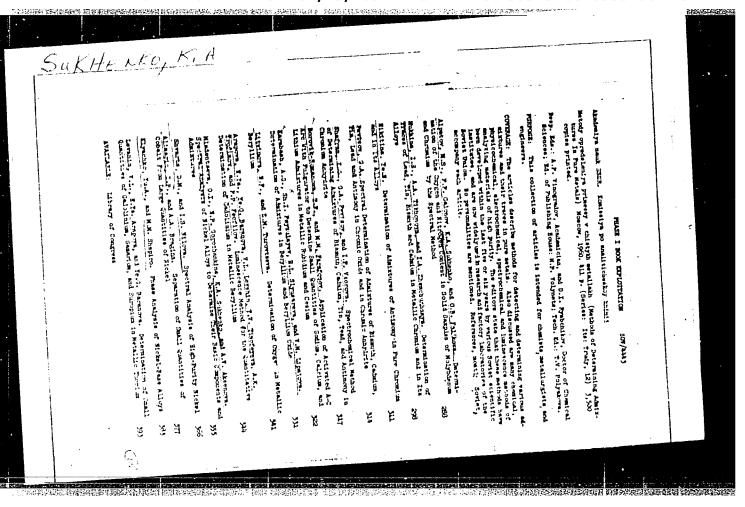
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GALONOV, P.P.; SIKHENKO, K.A.; SVENTITSKIY, N.S.; ISAYEV, N.G.; TISHIN, I.G.;

BARASHEVA, T.V.

Determination of nitrogen in steel and of hydrogen in commercial titanium and its alloys. Trudy kom.anal.khim. 10:190-195 '60.

(MIRA 13:8)

(Hydrogen-Analysis)

(Hydrogen-Analysis)

(Steel-Analysis)

MLADENTSEVA, O:I.; GOROZHANKINA, N.P.; SUKHENKO, K.A.; AKSENOVA, A.V.

Spectrum analysis of nickel alloys into basic components and impurities.
Trudy Kom. anal. knim. 12:355-365 '60. (MIRA 13:8)

(Nickel alloys—Analysis)

(Spectrum analysis)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

SHERIMAN. E.A., Mand. tekim. manc, red.; TME-VET. 1.2., rand.

(okim. nank, redsengent; MC SHEAN, S.I., red.; FEMILIAVI. M.A.,
tekim. red.

[Photoelectric methods of spectral analysis; collection of
articles] Fotoelektricheskie metody spektral'nogo analiza;
shormik statet. Moskva, Gos.neuchno-tekim.izd-vo Chorongiz,
10c1. 95 p.

(Spectrum analysis)

s/081/62/200/016/007/043 B168/B186

AUTHORS:

Sukhenko, K. A., Moiseyeva, K. A., Tishin, I. .., Bakanov,

D. G., Metelina, L. D., Alitman, T. D.

Photoelectric methods of analysis and their use in the

inspection of metals TITLE:

Referativnyy zhurnal. Khimiya, no. 16, 1962, 119, abstract 16D106 (In collection: Fotoelektr. metody spektr. analiza. PERIODICAL:

M., Oborongiz, 1961, 5-19)

TEXT: Operational results of the Soviet quantometer APC-10 (DFS-10) for the analysis of alloys based on Al, Mg, Ni, Ti and Fe are given. A brief description of the apparatus is followed by a list of the analytical lines and concentration ranges and by a description of the analytical conditions for various alloys; many calibration curves and tables are given showing the reproducibility of determinations of the elements. The mean random error in each case is calculated from 20-40 repeat determinations under various conditions (light source, polarity, material of support electrode, etc.). This method is shown to give greater analytical accuracy than the

Card 1/2

CIA-RDP86-00513R001653810017-9 "APPROVED FOR RELEASE: 07/13/2001

3/137/62/000/005/146/150 A052/A101

Sukhenko, K. A., Filatov, F. I., Galonov, P. P., Moiseyeva, K. A., Metelina, L. D. AUTHORS:

An analysis of Al alloys on a multichannel quantometer

FERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 6, abstract 5%36 (V sb. "Fotoelektr. metody spektr. analiza", Moscow, Oborongiz,

1961, 44-66)

A preliminary experience in analyzing AMr (AMg) and duralumin alloys by means of a multichannel quantometer of ARL company is reported. It is recommended to use graphite and carbon electrodes dressed in the form of semisphere and truncated cone, depending on the object of investigation. To increase the accuracy of the analysis, the room where the quantometer is placed must have an air conditioning installation securing temperature fluctuations of \pm 0.5°C. For a quick analysis cast electrodes 6-8 mm in diameter are suitable as samples, and also samples in the form of drawn wire and disks. The accuracy of determination is 1-2%.

[Abstracter's note: Complete translation]

Card 1/1

L. Vorob'yeva

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

s/137/62/000/005/145/150 A052/A101

AUTHORS:

Sukhenko, K. A., Al'tman, T. D.

TITLE:

Investigation of Al alloy standards by photoelectric method

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 6, abstract 5K35 (V sb. "Fotoelektr. metody spektr. analiza". Moscow, Oborongiz,

1961. 70-81)

An investigation and comparison of Soviet, English and German Al alloy standards of various grades was carried out by photoelectric method on LOG-10 (DFS-10) quantometer. A comparison of graduation diagrams for all standards shows a fairly good concentration relationship for Cu, Zn, Fe, Cr. 31. Ti. Mg and Mn. A certain discrepancy of graduation diagrams is due to the different manufacturing technology of standards and to the different chemical composition of alloys. The test samples of all alloys were prepared in the form of rods 6-7 mm in diameter. This made it possible to obtain a finer structure and a sufficient uniformity of chemical composition.

L. Vorob'yeva

[Abstracter's note: Complete translation]

Card 1/1 ·

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

S/137/62/000/005/148/150 A052/A101

HUTHORS:

Sukhenko, K. A., Filatov, F. I., Moiseyeva, K. A., Galonov, P. P.

Ketelina, L. D.

TITE:

Determination of boron in Ni alloys

Transported to feratively zhurnal, Metallurgiya, no. 5, 1962, 6, abstract 5K40 (7 ab., "Fatonlokta", metody spektr. analiza". Moscow, Oborongiz,

To determine B, NCH -8 (10P-08) modium-dispersion quartz spectros graph and AQC-13 (DFS-13) spectrograph were used. In the same samples B was determined also by the photoelectric method on a multichannel quantometer under low-voltage are conditions. For a sample with 0.025 B the mean arithmetic error 15 + 65. The results obtained by photoelectric and photographic methods coincide well with the results of a chemical analysis. L. Vorob'yeva

[Abstracter's note: Complete translation]

Card 1/1

CIA-RDP86-00513R001653810017-9" APPROVED FOR RELEASE: 07/13/2001

105 Sheesthoo, to A SOV/6181 PHASE I BOOK EXPLOITATION Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960.
Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed. Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO. Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova. PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results. COVERAGE: The collection presents theoretical and practical problems of the application of atomic and molecular spectral analy-sis in controlling the chemical composition of various materials in ferrous and nonferrous metallurgy, geology, chemical industry, and medicine. The authors express their thanks to G. V. Chentsova for help in preparing the materials for the press. References follow the individual articles.

arana kanasa				
	Materials of the Third Ural Conference (Cont.)	ov/6181	6	-
	Kuranov, A. A., and N. P. Ruksha. Spectral determination of impurities in platinum	91		
•	Sin'kov, N. A. Examination of some variants of calculating unknown impurity concentrations by the "additives" method	93		·
	Fishman, I. S., and F. K. Sattarova. Chemical-spectral determination of carbides and intermetallic compounds in nickel alloys	99		
	Sukhenko, K. A., V. S. Grigor'yeva, I. S. Lindstrem, N. S. Sventitekiy, and P. P. Galonov. Methodology for spectral determination of oxygen in titanium and its alloys	101		
•	Popov, B. V. Use of spectral analysis at the Ural Automo- bile Plant	102		
	Shlepkova, Z. I. Determination of phosphorus in copper allog with the CT-7 stylometer	7 5 104		•
	Card 8/15	•	•	
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S/048/62/026/007/016/030 B104/B138

AUTHORS:

Buyanov, N. V., Komarovskiy, A. G., and Sukhenko, K. A.

TITLE:

Photoelectric mathods of spectrum analysis and their

industrial application

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 26, no. 7, 1962, 902-906

TEXT: Spectral analysis in Soviet industry is carried out with Motoelectric devices produced by the American firm ARL, the Italian firm Optico-Lilano, and the British firm Hilger, and also with the Soviet quantometers $\mathcal{L}(\phi)$ -10 (DFS-10), ϕ = 0.1 (FES-1). Series production of the 10-channel, 74°C-31 (DFS-31) is planned to start in 1962. The DFS-10 is compared with the ARL quantometer, and found to be less accurate. The following must be improved in the Soviet make: the amplifying and recording system, light source, and the stand; some of the photocells must be replaced by photomultipliers. In addition, the voltage and frequency must be stabilized. There are 1 figure and 4 tables.

Card 1/1

5/048/62/026/007/020/030 B125/B104

THE THE PERSON OF THE PERSON O

AUTHORS:

Grigorova, V. S., Lindstrem, I. S., Sventitskiy, N. S.,

TIPLE:

Oxygen determination in low-melting metals and

alloys by the spectral method

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

TEXT: The oxygen content in niobium and molybdenum alloys is best determined from their spectra with simultaneous extraction of the gases. The specimen was used as an anode of the discharge current circuit (24,000 μF) of a low-voltage pulse generator. The experimental conditions can thus be easily standardized; the effect of impurities can be eliminated, and electrode erosion can be intensified. A niobium cone with 0.004% oxygen was used as a cathode. Aluminum cathodes can also be used. The discharge took place in commercial helium of 250 mm Hg. The oxygen content of He should be 0.01% at most; its nitrogen content should be sufficient for localizing the discharge. The spectra were

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

ABDRAKHMARDI, 6.3.; Kirika, V.1.; SUKHENKO, N.I.

Bydrawlic expander for increasing the diameter of a well.

Surenie no.4:3-5 '64.

1. Tetarskiy neftyanoy nauchno-issledovatel'skiy institut, g.

Bugul'ma.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

Use of drillable packers to exclude circulation-loss zones and cave-ins. Burenie no.7:8-10 '64. (MIRA 18:5)

1. Tatarskiy neftyanoy nauchno-issledovatel'skiy institut, g.

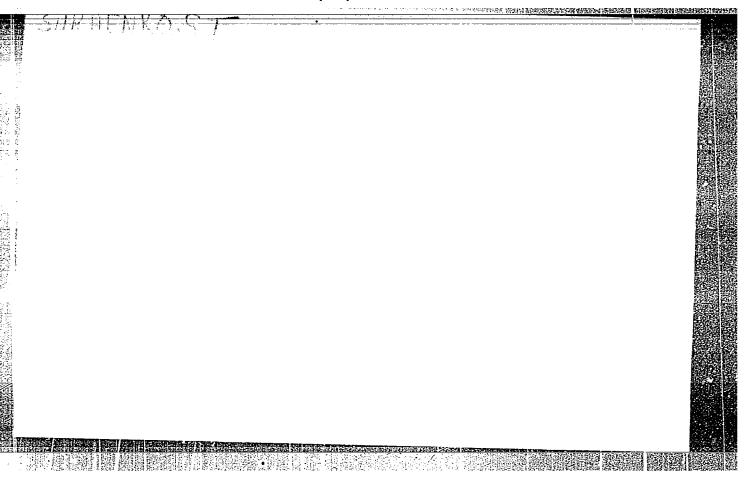
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APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

PUNHEV, M.S., inshener; SURHERKO, S.D., inshener.

Die-stamped compressed weed fiber furniture elements. Der.pres.
4 no.11:12-13 N '55.
(Weed, Compressed)

(Weed, Compressed)



68-9-1/15

AUTHORS: Sukhenko, S. I.

TITLE:

Preparation of a Charge of Kuznetsk Coal by Selective Crushing (Podgotovka shikhty iz kuznetskikh uglev

metodom izbiratel'nogo drobleniya)

PERIODICAL: Koks i Khimiya, 1957, Nr 9, pp. 3-7 (USSR)

ABSTRACT: Advantages of applying preferential grinding for coking blends from Kuznetsk coals were investigated. The size distribution of coals as received is given in Table 1, and the petrographic composition of the above coals in Table 2. Under works' conditions of crushing, the fusite group is concentrated in a size range exceeding 2-3 mm. Data on the thickness of the plastic layer and ash content of large and small size fractions of coals before crushing are given in Table 3. As the first step, the strength of coke produced from the individual size ranges of works crushing was studied. The best coke was obtained from size ranges 2-0 mm and 1-0 mm. An experimental blend was made from coals as received (except that coal above 50 mm was precrushed to -50 mm) and divided into three parts. One part was crushed by the usual works' practice, the second part was crushed as follows: screened at 3 mm, \neq 3 mm crushed to pass 3 mm and well mixed together. The third part: screened at 2 mm, above 2 mm crushed to pass 10 mm and again -2 mm fraction removed. The

Card 1/3

68-12-3/25

A CONTROL OF THE PROPERTY OF T

Ammosov, I.I., Doctor of Geological and Mineralogical Sciences Yeremin, I.V., Candidate of Technical Sciences AUTHORS:

Sukhenko, S.I., Candidate of Technical Sciences and

Oshurkova, L.S.

DURYIZALA (), D)

TITLE: Calculation of Blends for Coking on the Basis of the Petrographic Features of Coals (Raschet shikht dlya koksovaniya PERIODICAL: Koks i Khimiya, 1957, No.12, pp. 9-12 (USSR)
ABSTRACT: A method of blending coals for coking based on petro-

graphic analysis is proposed. The method is based on princciples developed in earlier work (Ref.1). On the basis of rank and petrographic composition, some new characteristics of coals were established, namely: leaning index and coking coefficient. The leaning index is the ratio between the amount of leaning components present in a blend to the amount of leaning components necessary for a given blend to obtain optimm ratio between cokable and inert components in the blend. Vitrite, leiptinite and 1/3 of semi-vitrite are included as cokable components and fusite group and 2/3 of semi-vitrite as inert components. The sum of cokable and inert components equals 100% of the organic part of coal ($\sum C + \sum I = 100\%$); the division of coals according to rank (position in metamorphic Card 1/4

CONTRACTOR OF THE PROPERTY PROPERTY OF THE PRO

68-12-3/25 Calculation of Blends for Coking on the Basis of the Petrographic Features of Goals.

$$\kappa = \frac{\sum c_1 \cdot \kappa_1 + \sum c_2 \cdot \kappa_2 \cdot \kappa_2 \cdot \dots + \sum c_n \cdot \kappa_n}{\sum_{1}^{n} c}$$

where K₁, K₂....K_n - coking coefficient of corresponding ranks at a given content of leaning components in the blend. Values for K are given in rig.2. From the leaning index and coking coefficient determined for a given blend, the corresponding coke strength can be determined from the diagram (Fig.3). An example of such calculations is given. It is stated that a very good agreement between the calculated and determined values for coke strength was obtained (correlation coefficient determined for 44 cases was 0.827). It is pointed out that maximum fissuring of coke is obtained when the individual components of a coal blend differ considerably in their rank. It is concluded that the method proposed can be used for calculating the required composition of multicomponent blends containing fusenic coals and up to 25% of Card3/4

AMMOSOV, I.I.; SUKHENKO, S.I.; YEREMIN, I.V.; OSHURKOVA, L.S.

Calculating coke charges on the basis of the petrographic characteristics of coals. Trudy IGI 8:21-30 '59.

(Coke industry) (Coal)

(MIRA 13:1)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

TO THE PERSON DESCRIPTION OF THE PROPERTY OF THE PERSON OF

KUPERMAN, P.I.; SUKHENKO, S.I., kand.tekhn.nauk

New data on the vertical shrinkage of the charge from Kuznetsk coals. Koks i khim. no.4:20-24 '60. (MIRA 13:6)

1. Vostochnyy uglekhimicheskiy institut (for Kuperman). 2. Kuznetskiy metallurgicheskiy kombinat (for Sukhenko)
(Goal--Carbonisation)

Coking time for coal charges containing an increased amount of gas coal from the Kuznetsk Basin. Koks i khim. no.8:11-12 '60.

(MIRA 13:8)

1. Vostochnyy uglekhimicheskiy institut (for Frishberg). 2. Kuznetskiy metallurgicheskiy kombinat im. I.V.Stalina (for Sukhenko).

(Coal--Carbonization)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

ZHEREBIN, B.N.; MISHIN, P.P.; KUDOYAROV, M.S.; SUKHENKO, S.I.; RASKIN, V.Z.; OSTROUKHOV, M.Ya.; RAKOV, V.V.

> Experimental blast furnace smelting using coke from large-capacity coke ovens. Koks i khim. no.2:23-29 '64. (MIRA 17/4)

- Kuznetskiy metallurgicheskiy kombinat (for Raskin).
 Chelyabinskiy institut stali (for Ostroukhov).
 Kuznetskiy filial Vostochnogo uglekhimicheskogo instituta (for Rakov).

9(2)

SOV/107-59-4-39/45

national properties in alternational parties of the contraction of the

AUTHOR:

Arytyunova, I., Sukhenko, T. (Baku)

TITLE:

AC Voltage Stabilization by One Gas-Discharge Stabilizer Tube (Stabilizatsiya peremennogo napryazheniya

odnim gazorazryadnym stabilitronom)

PERIODICAL:

Radio, 1959, Nr 4, p 56 (USSR)

ABSTRACT:

AC voltage stabilization circuits usually are composed of two gas-discharge tubes as shown in Figure 1. The authors found that the application of one SG-2P gas-discharge tube will provide an equal stabilization effect. Figure 2 shows a voltage stabilization circuit with one gas-discharge tube. The authors have the opinion that the latter circuit will be adequate in a number of possible applications. There are 2 circuit

diagrams and 1 graph.

Card 1/1

Steel Industry, and Trade

Collective agreement of a metallurgical plant, V pom. profaktivu, 13, No. 6, 1952

Monthly List of Russian Accessions, Library of Congress, May 1952, Unclassified.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

TO THE TRANSPORT OF THE PROPERTY OF THE PROPER

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NUL'MAN, N. (Kiyev); SUKHENKO, V. glvnyy inzhener (Kiyev).

Obtaining decorativ-finishing laminated plastics. Stroi.mat., izdel.i konstr. 2 no.6:15-16 Js '56. (MAA 9:8)

1. Direktor kombinata "Stroydetal'" (for Mul'man). (Plastics) (Tiles)
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。 一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种, 一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,

DOLGOV, S.I., doktor sel'skokhosyaystvennykh nauk; SUKHENNO, T.F., agronom.

Effectiveness of productive leaching of saline soils of the Mili Steppe in the Kura-Aras Lowlands, Gidr. i mel. 6 no.8:51-62 Ag '54. (MLRA 7:9)

(Mili Steppe--Soil conservation) (Soil conservation--Mili Steppe)

作用的表面的形式,我们的现在分词,我们就是这种的一种的人,但是是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人的人的人,我们就是这种的人的

PRODANOV, V.I., starshiy nauchnyy sotrudnik; MARCHENKO, N.S., veterinarnyy vrach; SUKHENKO, V.P., veterinarnyy fel'dsher

Treatment of mastitis in cows. Veterinaria 39 no.1:43-45 Ja 163. (MIRA 16:6)

1. Krasnodarskaya nauchno-issledovatel'skaya veterinarnaya stantsiya (for Prodanov). 2. Krasnodarskaya krayevaya veterinarno-bakteriologicheskaya laboratoriya (for Marchenko). 3. Kolkhoz imeni Kalinina, Novotitarovskogo rayona, Krasnodarskogo kraya (for Sukhenko).

(Udder--Diseases)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

SUKHE:KO, YE. K.

VOLODARS'KA, D.M.; GOROKHOVS'KYY, M.E.; KONDRAT'YEV, S.F.; PRAKHOV, M.M.;

KOYPANKNKO, T.M.; SUKHENKO, Y.E.K.; LYASHEVS'KA, V.F.; ZHEL'NIO, T.M.;

KHIVRICH, G.K.; GKORGIYEVSKYY, M.I.; HAYVEL'T, E.M.; DENISENKO, L.,

veduchly felaktor; PATSALVUK, P., tekhnichniy redektor

[Hints for everyday living] Pobutovi porady; Vyd. 3-ie, vypr. i

dop. Kyiv, Derzh. vyd-vo tekhn.lit-ry URSR, 1957. 184 p.

(Home economics)

(HIRA 10:8)

GERMAN, A.N., veterinarmy vrach; ZOZULYA, Ye.A., veterinarmy vrach; SUKHENKOV, G.Ye.

Sanguinicolosis of carp. Veterinariia 41 no.8:54-55 Ag 164. (MIRA 18:4) 7. Paspublikanskaya veterinarnaya laboratoriya Ukrainskoy SSR

1. Pasmiblikanskaya vaterinarnaya laboratoriya Ukrainskoy San (for German, Zopulya). 2. Ekrainskiy nauchno-issledovatel*skiy institut rybnogo khozyaystva (for Sukhenkov).

SUKHERMAN, B.

The KShP-3 bailer-screw grain loader is a good machine. Muk.-elev. prom. 28 no.2:30 F '62. (MIRA 15:3)

1. Direktor Mogilev-Podol'skoy realizatsionnoy bazy. (Grain-handling machinery)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

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Development of reticular matter of the spinal bond in man [with summary in English]. Arkn.snat.gist. i embr. 34 nc.3:30-36 My-Je '57.

(MiRA 10:19)

1. Iz kefedry normal'noy anatomii (zav. - zasluzhennyy deyetel' nauki prof. M.S.Spirov) Kiyevskogo ordena Trudovogo Krasnogo Znameni meditsinskogo instituta in. skad. A.A.Bogomol'tsa.

(SPIRAL CHP, embryol.

reticular matter develop.in man (Rus))
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SUKHETSKAYA, M. P.

SUKHETSKAYA, M. P.- "Reticulate Matter in the Human Spinal Cord." Kiev Order of Labor Red Banner Med Inst imeni Academician A. A. Bogomolets, Kiev, 1955 (Dissertations for Degree of Candidate of Medical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

SHEVELEY, F.A., doktor tekhn.neuk; GORIN, G.S., inzh.; MINTS, D.M., prof., doktor tekhn.neuk; SUKHIASHVILI, N.K., kend.tekhn.neuk; MIKHAYLOV, N.M., inzh.; NINEMYAGI, D.K., red.izd-va; TEMKINA, Ye.L., tekhn. red.

[Fourth International Water Supply Congress] IV Mezhdunarodnyi kongress po vodosnabzheniiu. Pod red. F.A.Sheveleva. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 111 p. (MIRA 13:9)

International Water Supply Congress. 4th, Brussels, 1958.
 Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Shevelev).

(Water-supply engineering---Congresses)

SUKHIASHVILI. N.K.

One more important potential. NTO 3 no.4:7 Ap 161. (MIRA 14:3)

K			
IASHVILI, N., kand.tekhi	n.nauk		
Valuable garbage. M.	0 3 no.12:22 D 161.	(MIRA 15:1)	
	stra mestn ege khozyaystva (Refuse and refuse disp	a Gruzinskoy SSR. esal)	
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SUKHIKH, A.A.; KRATIROV, D.A.

Treating bundles of export lumber with antiseptics. Der. prom.
14 no.5:20-21 My '65. (MIRA 18:6)

1. Arkhangel'skiy lesopil'no...derevoobrabatyvayushchiy kombinat imeni V.I. Lenina.

Provide the second of conference to account to the experience of conference expression.

Extremity in a dog doring the exclusion of conference of the confer

THE STATE STREET, STRE

BABCHENKO, V.N., otv.red.; SUKHIKH, L.G., starshiy inzh.-agrometeorolog. red.; MARTYNOV, S.I., red.; PERMYAKOVA, A.I., red.; ROGOVSKAYA, Ye.G., red.; SERGEYEV, A.N., tekhn.red.

[Agroclimatic handbook for Perm Province] Agroklimaticheskii spravochnik po Permskoi oblasti. Leningrad, Gidrometeor.izd-vo, 1959. 131 p. (MIRA 13:11)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby. Ural'skoye upravleniye. 2. Nachal'nik Ural'skogo upravleniya gidrometsluzhby (for Babchenko). 3. Direktor Sverdlovskoy gidrometeorologicheskoy observatorii (for Martynov). Nachal'nik otdela klimata Sverdlovskoy gidrometeorologicheskoy observatorii (for Permyakova).

(Perm Province--Crops and climate)

NAME OF THE PERSON OF THE PERS

BABCHENKO, V.N., otv.red.; ZHDANOVA, L.P., red.; NEDOSHIVINA, T.G., red. Prinimali uchasticy: MARTYNOV, S.I., red.; PERMYAKOVA, A.I., red., SUKHIKH, L.G., red.; BRAYHINA, M.I., tekhn.red.

[Agroclimatic manual for Chelyabinsk Province] Agroklimaticheskii spravochnik po Cheliabinskoi oblasti. Leningrad, Gidrometeor. izd-vo, 1960. 155 p. (MIRA 14:4)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby. Ural'skoye upravleniye. 2. Direktor
Sverdlovskoy gidrometobservatorii (for Martynov). 3. Nachal'nik
otdela klimatologii Sverdlovskoy gidrometobservatorii (for
Permyakova).

(Chelysbinsk Province--Crops and climate)

SUKHIKH, L.I. (Moskva)

Determining the optimum shape of a longitudinal groove for rotating shafts. Izv. AN SSSR Otd. tekh. nauk. Mekh. i mashinostr. no.2:177-179 Mr-Ap '63. (MIRA 16:6)

(Shafting)

PHASE I BOOK EXPLOITATION

sov/4086

Beda, L. M., L. N. Korolev, N. V. Sukhikh, and T. S. Frolova

Programma avtomaticheskogo differentsirovaniya dlya mashiny BESM (Automatic Differentiation Program for the HESM [High-Speed Electronic Computer])
Moscow, 1959. 19 p. (Series: Elektronnyye vychislitel'nyye mashiny)
500 copies printed.

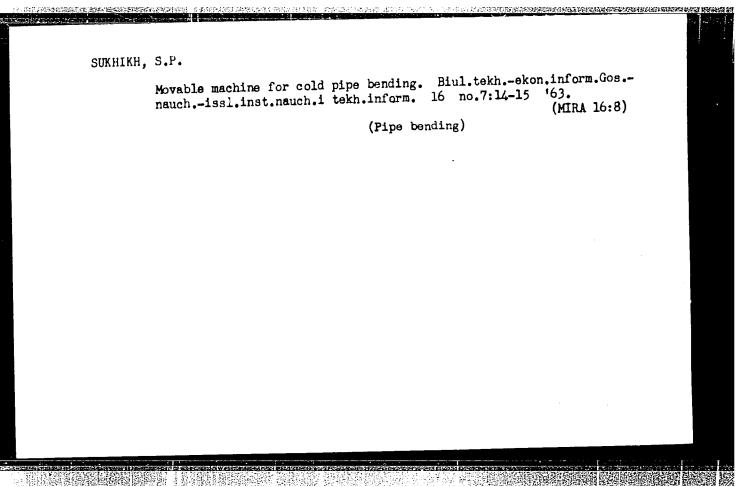
Spor.soring Agency: Akademiya nauk SSSR. Institut tochnoy mekhaniki i vychislitel'noy tekhniki.

PURPOSE: This booklet is intended for programmers and engineers working in the field of caputer technology.

COVERAGE: The booklet contains a general description of a program and method for the analytical differentiation of functions on the Soviet high-speed digital computer BESM. The method and program were worked out at the Institute of Precise Mechanics and Computer Technology, academy of Sciences USSR. At the end of the book are found block-diagrams for BESM solution of the following mathematical problems: the representation of a mathematical expression by a sequence of pairs; the derivation of the derivatives of elementary pairs; and the synthesis of Card 1/2

KRIKUN, V.Ya., inzh.; SUKHIKH, S.P., inzh.

Bringing pipe bending to the assembly site. Stroi. truboprov. 8
no.3:29-30 Mr '63.
(Pipe bending-Equipment and supplies)



s/190/63/005/004/020/020 B101/B220

AUTHORS:

Ivanov, V. S., Sukhikh, T. A., Breger, A. Kh., Osipov, V. B.,

Gol'din, V. A.

TITLE:

Radiation polymerization of maleic N-phenyl maleinimide in

solid state

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 4, 1963, 628

TEXT: Maleic' N-phenylimide, m.p. 89 - 90°C, was polymerized by Co gamma irradiation. The irradiation yield was ~1000 molecules per 100 ev. At 87.5°C, 0.65 Mr/hr and a dose of 2.2 Mr, 32.5 % of polymer was obtained. At 20°C this yield decreased to 4.5 - 6.5 %. More complete polymerization (79.5%) was achieved by further heating to 100°Cc. the ampoules that had beer irradiated at 82°C. With 2 - 5 Mr light yellow crystalline powders were obtained, with 10 Mr brown amorphous substances. Dependent on the conditions of production, the polymers are heat-resistant up to 250 - 330°C, soluble in dimethyl formamide and CS2, insoluble in H20, acetone, CCl4, benzene, toluene, heptane and cyclohexane. The IR spectra of the polymers showed bands of the phenyl ring, the carbonyl group and the C-N bond. Card 1/2

S/190/63/005/004/020/020 B101/B220

Radiation polymerization of ...

From a comparison of the IR spectra of monomer and polymer it was concluded that in the course of polymerization the C-C bonds are opened.

SUBMITTED: July 26, 1962

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

S/0190/64/006/005/0782/0786

ACCESSION NR: AP4037271

AUTHORS: Ivanov, V. S.; Sukhikh, T. A.; Medvedev, Yu. V.; Breger, A. Kh.; Osipov, V. B.; Gol'din, V. A.

TITLE: Studies in radiation polymerization. 3. Radiation polymerization of piperylene in channel complexes of urea

SOURCE: Vy*gokomolekulyarny*ye soyedineniya, v. 6, no. 5, 1964, 782-786

TOPIC TAGS: piperylene polymerization, urea clathrate complex, endocytic clathrate component, channel polymerization, tube structure, trans piperylene

ABSTRACT: Urea clathrate complexes with piperylene as endocytic component were prepared by mixing 1 gm urea with 0.001-0.1 ml methanol, cooling in a glass ampule to -780, and adding 1-3.7 moles of cooled piperylene per mole of wea. The polymerization of piperylene was achieved by & -irradiation with Good. Parallel studies on block-polymerization of piperylene were conducted at -78C with irradiation doses of 30 Mrad. After 2 to 6 weeks at -78 to -45C, the residual piperylene monomer was removed by means of a vacuum pump. The urea was then dissolved in 10% acetone, leaving polymers whose specific viscosity, degree of unsaturation, and

1/2

CIA-RDP86-00513R001653810017-9" APPROVED FOR RELEASE: 07/13/2001

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653810017-9

UR/0000/66/000/000/0019/0026 SOURCE CODE: AUTHOR: Pavlovich, N. V. (Doctor of technical sciences; Deceased); Sukhikh, V. T. ORG: Kiev Technological Institute of Light Industry (Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti) TITLE: Thermophysical properties of ε-caprolactam and poly-ε-caprolactam SOURCE: AN UkrSSR. Teplofizicheskiye svoystva veshchestv (Thermophysical properties of materials). Kiev, Izd-vo Naukova dumka, 1966, 19-26 TOPIC TAGS: polymer physical chemistry, heat conductivity, heat transfer coefficient, ABSTRACT: In view of the importance of the physical properties of polymers, the article presents tables of the physical properties of ε-caprolactam and poly-ε-caprolactam as a function of temperature. The properties include density of the solid heat transfer coefficients and thermal conductivity. It is found that the density of the ε-caprolactam is a linear function of temperature. The data indicate that the polymer which contains a higher concentration of low molecular weight compound melts at a mer wuitin contains a nigher concentration of low molecular weight compound molecular lower temperature. Experimental data show that the calculated thermal expansion coefficient α for polycaprolactam is 0.40 kg/m³·deg¹. The data include those determined by the authors and those reported in the literature by other authors. Orig. art. has: ORIG REF: 005 11 tables. SUBM DATE: 10Har65/ SUB CODE: 07.20 / **Card 1/1**

SUKHIKH, V. T. and PAVLOVICH, N. V. (Kiev technological institute of light industry)

"Data on investigations of thermal physical properties of certain monomers."

Report presented at the Section on Thermal-physical Properties and Non-stationary Thermal Capacity, Scientific Session, Council of Acad. Sci. Ukr SSR on High Temperature Physics, Kiev, 2-4 Apr 1963.

Reported in Teplofizika Vysokikh temperatur, No. 2, Sep-Oct 1963, p. 321, JPRS 24,651.

CUMMIN, D. Ye. -- "The Development and Investigation of a New Seron Section for the Working Fart of Plucking Equipment." Joint Academic Council, All-Union Sci Res Inst of the Mechanization of Agriculture (VIE), and All-Union Sci Res Inst of the Electrification of Agriculture (VIENTH). Mescow, long. (Dissertation for the Decree of Cardidate in Technical Sciences)

Co: Knizhnaya Letopis', No 1, logo

SUKHIN, G.M.

Effect of transplantation of the bone marrow in treating sarcoma M-1 in rats with high doses of Thic-TEPA. Vop.

(MIRA 18:6)

onk. 11 no.3:48-52 165.

1. Iz laboratorii eksperimental'noy terapii opukholey (zav. - doktor med. nauk V.M. Bergol'ts) Gosudarstvennogo onkologicheskogo instituta imeni P.A. Gertsena (dir. - prof. A.N. Novikov).

13089

SUKHIN, K.

USSR/Cities - Lemingrad 6202.0318 Manufacturing Areas 4401.0200 Dec 1947

"Industrial Leningrad," K. Sukhin, 5 pp

"Slavyane" No 12

Short discussion of some of more important industrial installations of city and indication of items produced in some cases. Plants mentioned are: Elektrosila imeni Kirov, Krasnyy Treugol'nik, Ravenstvo, Krasnyy Vyborzhets, plants imeni Stalin, imeni Kotlyakov, imeni Sverdlov, Krasnaya Vagranka, Metallist, Vulkan, Skorokhod, Bol'shevik and Rabochiy. More detailed information is given concerning Elektrosila imeni Kirov and turbine plant imeni Stalin.

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CIA-RDP86-00513R001653810017-9" APPROVED FOR RELEASE: 07/13/2001

124-57-2-2496

A THE PROPERTY OF THE PROPERTY

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 138 (USSR)

AUTHORS: Kunin, N.F., Sukhin, L.T.

TITLE: The Plastic Compression of Metals at Various Temperature

Levels (Plasticheskoye szhatiye metallov pri razlichnykh

temperaturakh)

PERIODICAL: Tr. Chelyabin, in-ta mekhaniz, i elektrifik, s. kh., 1955,

Nr 5, pp 134-142

ABSTRACT: Presentation of the results of experimental investigations on the plastic compression of a number of metals at various tem-

perature levels; the purpose of the work was the confirmation that for that type of deformation the stresses are an exponential function of the temperature over a broad interval of temperatures. The investigation comprised copper, silver, aluminum, zinc, lead, tin, lithium, sodium, and cadmium. The paper is

preceded by a brief survey of the literature on the subject.

1. Hebris--Buresses 2. Hebals-- G. A. Smirnov-Alyayev esperature factors

Card 1/1

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653810017-9

81807

Inermoelectric Phenomena in Deformation of Metals

8/137/60/000/04/11/015

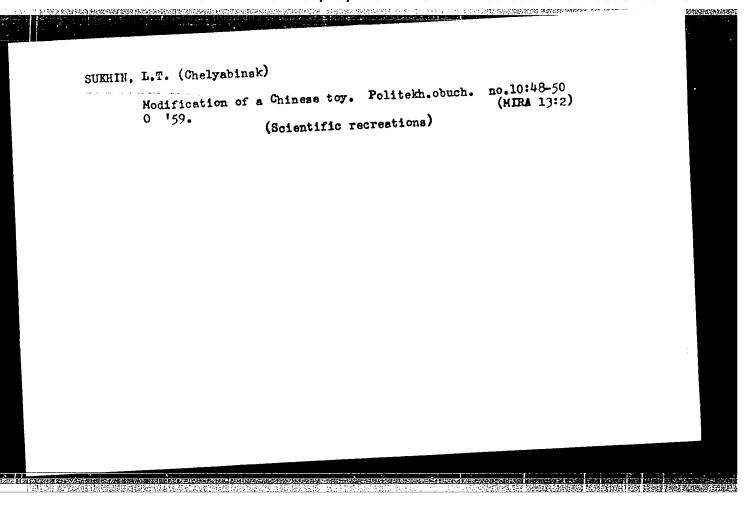
ieforming installation. One of the joints was placed in melting ice, the other ne in oil. The magnitude of thermo-emf was measured using a mirror galvanometer, it was shown that the thermo-emf produced by deformation consisted of an elastic contains a residual component. The elastic thermo-emf produced, may be determined as the difference of thermo-emf under load and after unloading. The elastic component of the thermo-emf produced increased with higher stress. The stress under which the difference between elastic and non-elastic components arises, is designated as the thermoelectric yield limit. It was established that the thermoelectric yield limit of the investigated metals approached the mechanical yield point. During expansion, the elastic thermo-emf has a sign that is opposite to the residual thermo-emf; this causes an inversion of the sign of full thermoemf if the stress is sufficiently high. It was shown that for the thermo-emf produced, elastic-residual phenomena were observed in the form of a thermoelectric hysteresis.

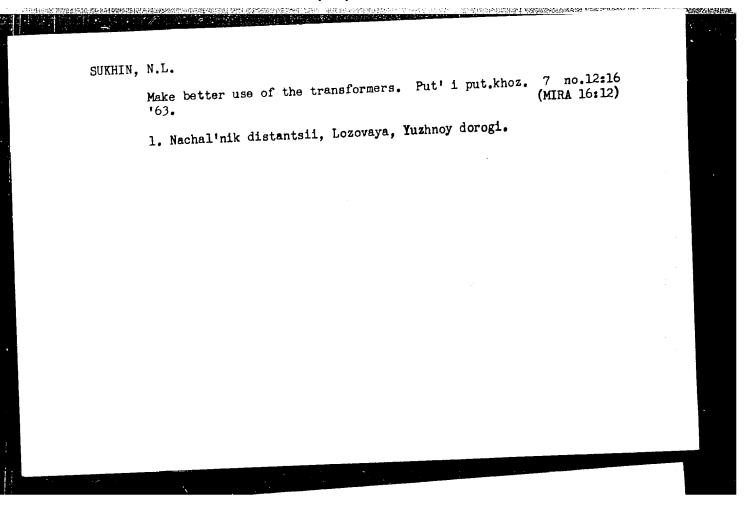
L. G.

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Card 2/2





USSR / Cultivated Plants. Plants for Technical Use.
Oil Plants. Sugar Plants.

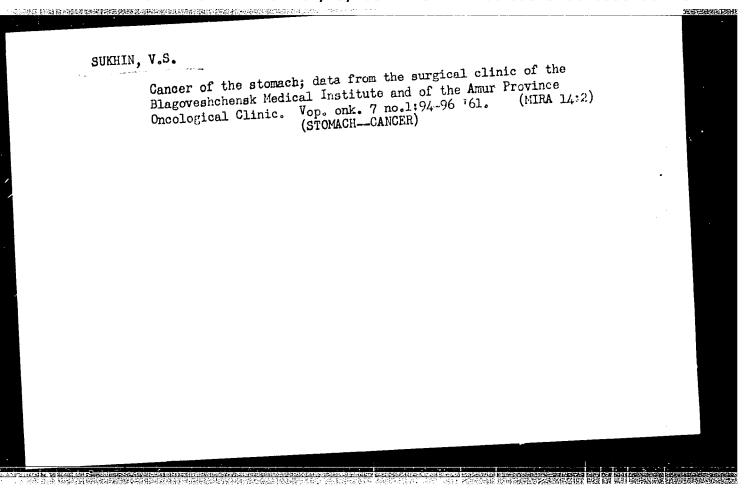
M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25014

period, sowing was conducted with the application of mulch. The best species of mulch, under conditions of the Issyk-Kul'skaya Oblast' is humus. Results of determining the amounts of weight gain and the diameter of the root collars indicate that the optimal sowing periods of the mulberry seeds in this oblast' must be considered to be the first half of May. -- O. P. Plyusnina

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"



SUKHIN, V.S.

Case of bilateral distal epiphysiolysis of the femur. Ortop. travm.i protez. 22 no.1:74-75 Ja 161. (MIRA 14:5)

1. Iz kliniki obshchey kbirurgii (ispolnyayushchiy obyazannosti zaveduyushchego - dotsent A.G.Gladchenko) Blagoveshchenskogo meditsinskogo instituta. Adres avtora: Blagoveshchensk-na-Amure, Pochtamtskiy pereulok, d.l., Klinika obshchey khirurgii.

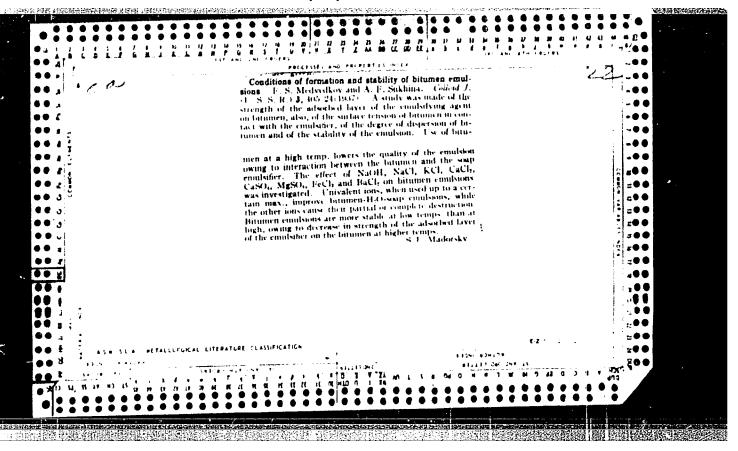
(FEMUR-WOUNDS AND INJURIES)

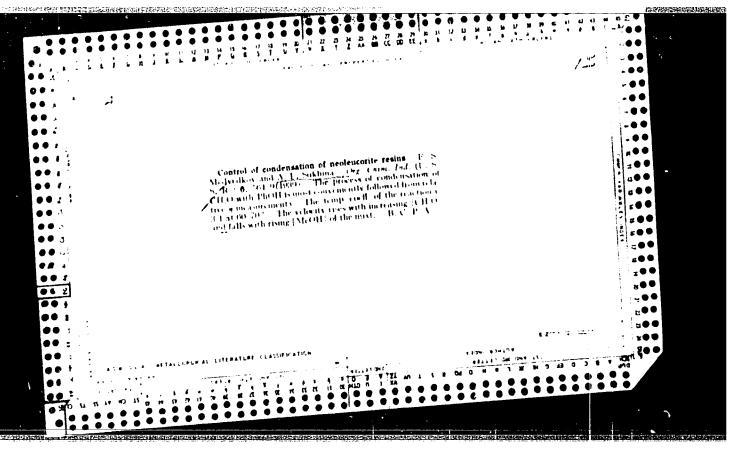
VOLKOV, Ivan Georgiyevich; GLIKIN, Boris Abramovich; ZABOLOTNYY, Il'ya Yevtikhiyevich; LIKHOTINSKIY, Valentin Sergeyevich; SPEKTOR, David Borisovich; YAVORSKIY, Anatoliy Georgiyevich; SUKHIN, Ye.T., red.; MARTIROSOV, A.Ye., red.; VAYL', T.I., red.izd-va; LAVRENOVA, N.B., tekhn.red.

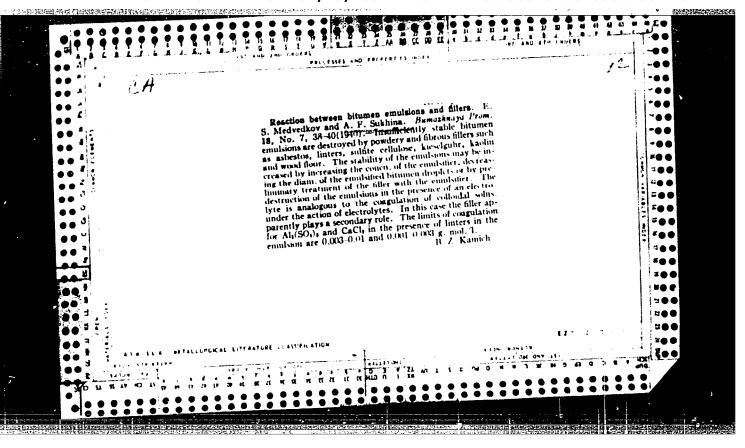
[Reference book for sea harbor mechanizers] Spravochnik mekhanizatora morakogo porta. Moskva, Izd-vo "Morakoi transport," 1959.

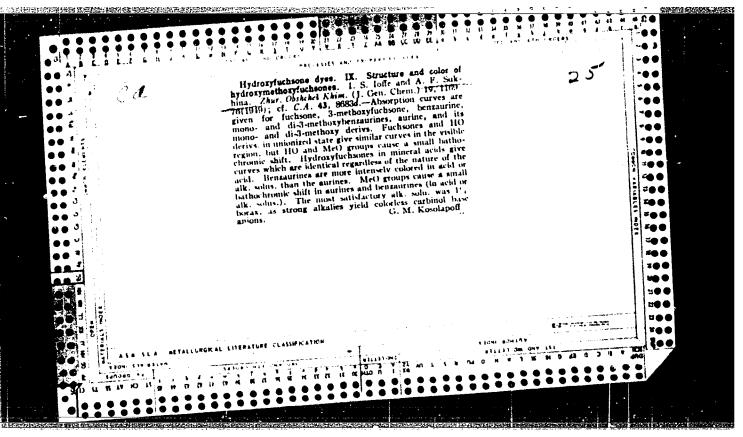
(MIRA 13:2)

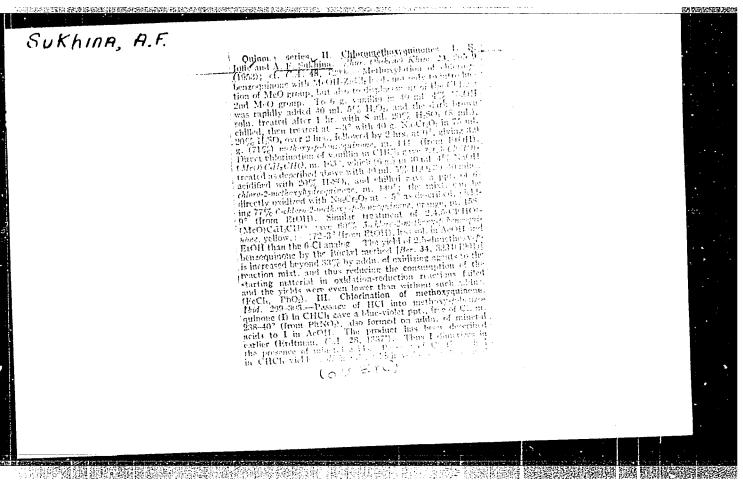
(Harbors--Equipment and supplies)
(Cargo handling--Equipment and supplies)

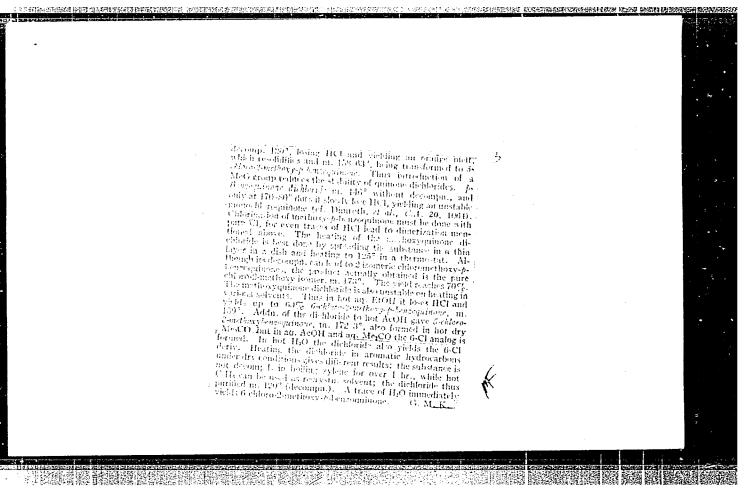












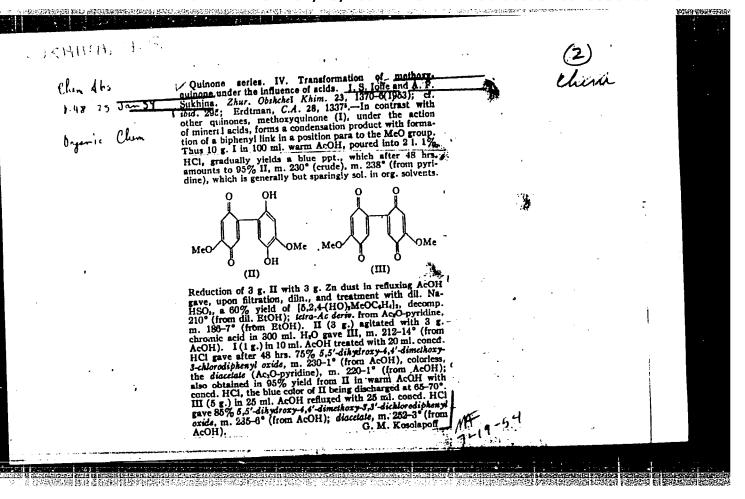
IOFFE, I. S.; SUKHINA, A. F.

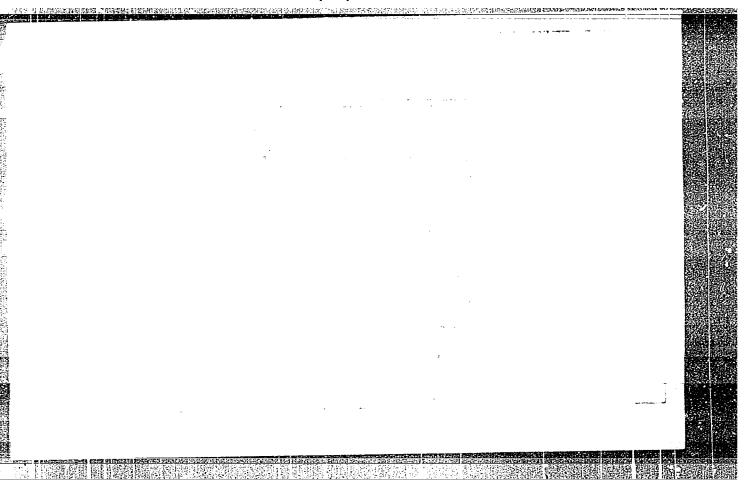
Quinone

Investigation of quinones. Part 3. Chlorination of methoxyquinone. Zhur. ob. khim. 23, No. 2, 1953.

Monthly List of Mussian Accessions, Library of Congress, June 1953. Uncl.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"





SUKHINA, A. F.

USSR/Chemistry

Card 1/1

Authors

: Ioffe, I. S.; and Sukhina, A. F.

Title

Investigation of quinones. Part 9.- Reaction of methoxyquinones with

emines.

Periodical

Zhur. Ob. Khim. 24, Ed. 4, 705 - 709, April 1954

Abstract

: The reaction of methoxyquinones with amines shows two trends: 1) addition of the amino radical to the non-substituted carbon atom of the quinoid nucleus and 2) displacement of the methoxyl group by the amino group. The amino radical subjected to the effect of the methoxyl group rapidly attaches itself to the non-substituted carbon atom provided the latter is in para-position relative to the amino group. Displacement of methoxyl group by still another amino radical at an aniline surplus is already much slower. Six references; 3 USSR since

1946; 1 English 1946; 2 German since 1891. Chemical formulas.

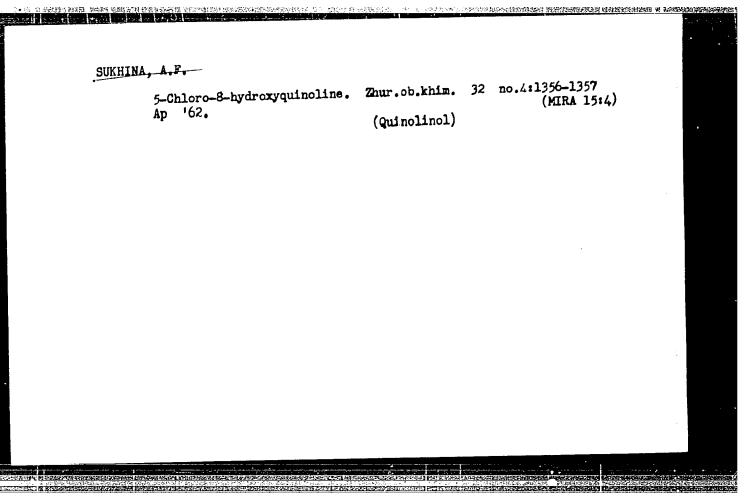
Institution

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Submitted

: July 28, 1953

CIA-RDP86-00513R001653810017-9" **APPROVED FOR RELEASE: 07/13/2001**



IOFFE, I.S.; SUKHINA, A.F.; ZHUKOVA, Ye.N.

Rhodemine dyes and related compounds. Part 6: Chloride and amides of sulforhodamine B. Zhur.ob.khim. 32 no.5:1439-1492 (MIRA 15:5) My '62. (Rhodamine)

S/079/63/033/001/022/023 D204/D307

AUTHOR:

Sukhina, A. F.

TITLE:

The sulfonic acid of benzylacridine

PERIODICAL:

Zhurnal obshchey khimii, v. 33, no. 1, 1963, 317

TEXT: Benzylacridine was heated with 96% H₂SO₄ at 100°C, and was then neutralized with aq. NaOH; the precipitated Na sulfonate was dissolved in hot water and the free sulfonic acid was obtained by precipitation on acidifying the water with H₂SO₄. After recrystallyzation from water, the acid appeared in the form of fine yellow plates, sparingly soluble in alcohol and acetone. The aqueous solutions exhibited an intense blue-green fluorescence. The Na salt was obtained from concentrated aqueous solutions in the form of colorless needles. Both compounds are new. Abstracter's note: Essentially complete translation.

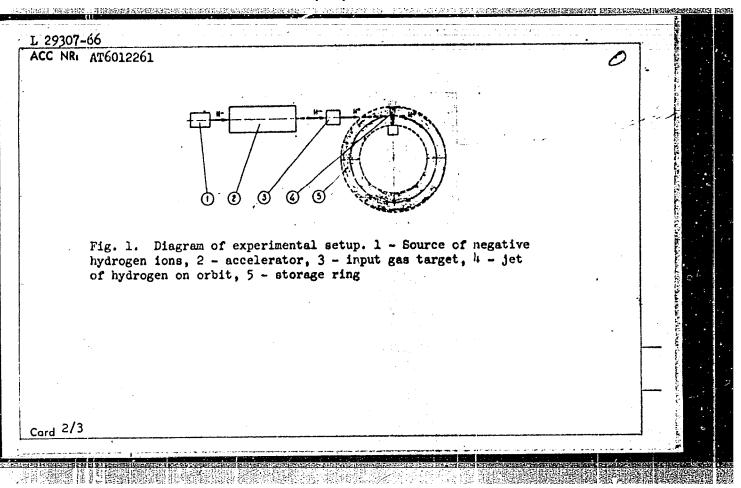
-SUBMITTED: July 6, 1962

Card 1/1

IOFFE, I.S.; SUKHINA, A.F.; ZHUKOVA, Ye.N.

Rhodamine dyes and related compounds. Part 8: Amides of sulforhodomine B containing N-\$\beta\$-hydroxy and \$\beta\$-chloroethyl groups. Zhur.ob.khim. 33 no.12:3943-3946 D 163. (MIRA 17:3)

SOURCE CODE: UR/0000/65/000/000/0001/0013 FWT(m) IJP(c) ACC NA. AT6012261 AUTHORS: Budker, G. I.; Dimov, G. I.; Popov, A. G.; Sviridov, Yu.K.; Sukhina, B. N.; Timoshin, I. Ya. Institute of Nuclear Physics, Siberian Department AN SSSR (Institut yadernoy fiziki Sibirskogo otdeleniya AN SSSR) TITLE: Experimental investigation of charge-exchange injection of protons in annular accelerators and storage rings SOURCE: AN SSSR. Sibirskoye otdeleniye. Institut vadernov fiziki. Doklady, 1965. Eksperimental noye issledovaniye perezaryadnoy inzhektsii protonov v kol tsevyyee uskoriteli i nakopiteli, 1-13 TOPIC TAGS: charge exchange, proton accelerator, energy scattering, circular accelerator The authors describe experiments on the accumulation of protons in an annular track by means of a charge exchange (Fig. 1). A beam of atoms or negative ions of hydrogen is introduced on a proton orbit in a magnetic field at the point where it crosses a hydrogen jet. The particles lose electrons in the jet and are accumulated on the orbit in the form of protons. The protons passing many times through the jets lose energy and are scattered. In a constant magnetic field the time of Card 1/3



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ACC NR: AT6012261

accumulation is limited by the loss of the circulating protons to the inner wall of the storage ring. If the average energy loss is compensated for, the storage time is limited by elastic scattering and by the energy scatter of the protons. The experimental setup was described elsewhere (Mezhdunarodnaya konferentsiya po uskoritelyam Dubna, 1963, [International Conference on Accelerators], Moscow, 993 -- 996, 1964). Methods of measuring the proton current and the proton lifetime in the storage ring are briefly described. Various parts of the experimental setup are described in detail. The ion source was a modified electrostatic generator. Up to 10 protons could be accumulated in the betatron loop (current ~ 1 ampere). The injection efficiency was close to 100%. Hydrogen and carbon dioxide were used for the input targets, with optimal thickness 2.5 x 10 and 3 x 10 mol/cm. An accelerating voltage of 200 v was applied in pulses of 500 µsec duration, so that accumulation for 2500 revolutions was possible. The loop current increased approximately linearly to 300 ka. The various sources of losses are briefly analyzed. Orig. art. has: 8 figures and 7 formulas.

SUB CODE: 20/ ORIG REF: 001/ OTH REF: 001

Card 3/3 B

25774-66 EWT(m) IR/0089/65/019/006/0507/0510 SOURCE CODE: AP6016378 ACC NRI AUTHOR: Hudker, G. I.; Dimov, G. I.; Popov, A. G.; Sviridov, Yu. K.; Sukhina, B. N.; Timoshin, I. Ya. ORG: none TITLE: Experiments with charge exchange injection of protons in a storage ring SOURCE: Atomnaya energiya, v. 19, no. 6, 1965, 507-510. TOPIC TAGS: Van de Graaff accelerator, proton, hydrogen ion ABSTRACT: Negative hydrogen ions were extracted from a high frequency source and were accelerated in a <u>Van de Graaff machine</u> to 12 µamp. This beam then struck a neutralizing gas target of hydrogen or carbon dioxide having an optimum thickness of 2.5 X 1016 or 3 X 1015 molecules/cm² respectively. The resulting beam of neutral hydrogen atoms then struck a jet of hydrogen having a thickness of ~1017 atoms/cm². The hydrogen jet was directed along a radius from the center of a storage ring with an aperture of 8 % 4 cm and an orbital radius of 42 cm. The particle losses did not exceed a few percent with injections up to 1500 revolutions. The orbital current increased linearly for the first 100 revolutions and remained constant for ~150 revolutions. During this reriod the orbital radius of the beam decreased and then struck the internal hydrogen stream. Thus the injection efficiency was close to 100%. These preliminary results indicate that it is possible to accumulate a proton current that is limited only by the space charge. Orig. art. has: 5 figures. NA SUB CODE: 20 / SUBM DATE: none Card

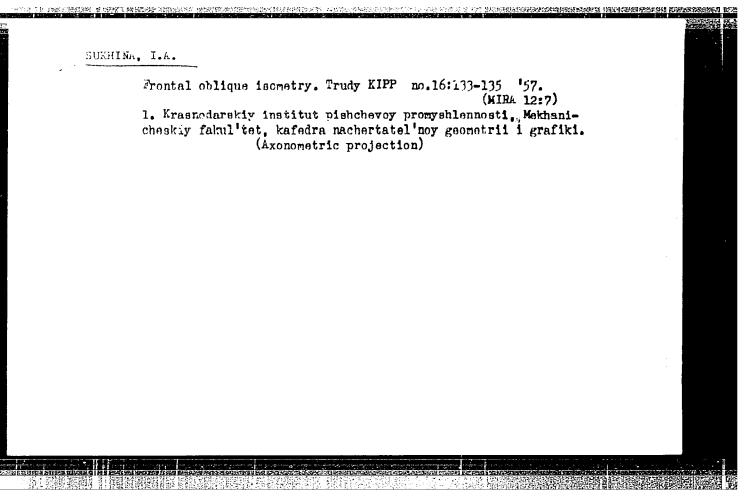
SUICHINA, I.A.

Making axonometric drawings of assemblies. Trudy KIPP no.16: 127-132 57.

1. Krasnodarskiy institut pishchevoy promyshlennosti, Mekhanicheskiy fakul'tet, kafedra nachertatel'noy geometrii i grafiki. (Axonometric projection)

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SUKHINA, V.Ya., inzh.

Determining the gear ratio and the efficiency of planetary transmissions. Vest.mash. 42 no.4:37-43 Ap '62. (HIRA 15:4) (Gearing)

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86-9-5/36

AUTHOR:

Sukhinenko, G.A., Lt.Col.

TITLE:

Air Blockade of an Airfield by Bombers at Night (Blokiro-

vanije aerodroma bombardirovshchikami noch'yu)

PERIODICAL: Vestnik Vozdushnogo Flota, 1957, Nr 9, pp. 14-17 (USSR)

ABSTRACT:

In this article the author describes the organization and the procedure of a group exercise by a bomber subunit on the ground in order to study the tactics of bombers in air blockade of enemy airfield at night, to study of the execution of flak evasive maneuvers, and to teach the flying personnel in the proper estimation of the ground and air situation and in making the necessary decisions.

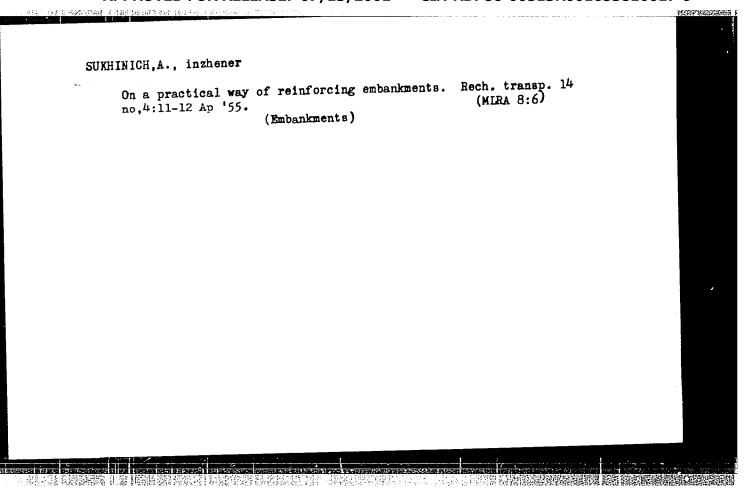
One map.

AVAILABLE:

Library of Congress

Card 1/1

CIA-RDP86-00513R001653810017-9" **APPROVED FOR RELEASE: 07/13/2001**



CRHINING, A.A USSR/ Biolog - Ornithology

Pub. 86 - 30/37 Card 1/1

Sukhinin, A. A. Authors

The black stork in Turkmen Title

Priroda 44/4, 117 - 118, Apr 1955 Periodical :

Abstract An account is given of observations made of the habits of the black stork, covering migrations in February and September,

nest buildings on crags and rearing of young. The nesting was observed in mountainous regions of Turkmen near waters containing

a food supply. Three Soviet references (1940 - 1952).

Institution :

Submitted

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SUKHININ, A.N.

Elack stork in Turkmenistan. Priroda 44 no.4:117-118 Ap 155.
(MEA 8:4)

1. Bakhyzskiy gosudarstvennyy zapovednik, Turkmenskaya SSR.
(Turkmenistan—Storks)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

SUKHININ, A.N.

Data on the distribution of certain birds in Turkmenia. Zool. zhur.35 no.5:779-780 Ky '56. (MIRA 9:9)

1.Badkhyzskiy gosudarstvennyy zapovednik. (Turkmenistan--Birds)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810017-9"

RUSTAMOV, A.K.; SUKHININ, A.N.

New information on birds of southern Turkmenia. Izv.AN Turk.SSR (MIRA 10:10)

1. Turkmenskiy sel'skokhozyaystvennyy institut im. M.I.Kalinina, Badkhyzskiy gosudarstvennyy zapovednik.

(Turkmenistan--Birds)

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ON THE REPORT OF THE PROPERTY OF THE PROPERTY

(MIRA 10:10)

SUKHININ, A.N. Materials on the ecology of the Turkestan harrier eagle Circastos ferox heptneri Dem. in Badghis. Izv.AN Turk. SSR no.5:132-135 '57.

1.Balkhyzskiy gosudarstvennyy zapovednik. (Badghis--Hawks)

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